

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Katsunari Tezuka et al. Art Unit :
Serial No. : Examiner :
Filed : Herewith
Title : A PHARMACEUTICAL COMPOSITION FOR TREATING IMMUNE
DISEASES

MAIL STOP PATENT APPLICATION

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Under 35 USC §120, this application relies on the earlier filing date of U.S. Application Serial No. 09/830,548, filed June 12, 2001. The references listed on the enclosed form PTO-1449 were submitted to and/or cited by the Office in the prior application and, therefore, are not provided in this application.

Applicants also wish to bring to the Examiner's attention the following co-pending applications, each of which is assigned to the assignee of the present application and contains at least one overlapping inventor with the present application:

U.S. Application No. 09/383,551, filed August 26, 1999;
U.S. Application No. 09/561,308, filed April 28, 2000;
U.S. Application No. 10/107,828, filed March 26, 2002;
U.S. Application No. 10/107,868, filed March 26, 2002;
U.S. Application No. 10/107,907, filed March 26, 2002;
U.S. Application No. 10/301,056, filed November 21, 2002;
U.S. Application No. 09/859,053, filed May 16, 2001;
U.S. Application No. 10/625,105, filed July 22, 2003;
U.S. Application No. 10/704,426, filed November 7, 2003;
U.S. Application No. 10/704,030, filed November 7, 2003;
U.S. Application No. 10/704,072, filed November 7, 2003;
U.S. Application No. 10/704,056, filed November 7, 2003; and

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December 5, 2003
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Attorney's Docket No.: 14539-005002 / JF-82US-C1

two continuations (serial numbers not yet assigned) of U.S. Application No. 10/301,056,
both filed on November 25, 2003.

This statement is being filed with the application. Please apply any charges or credits to
Deposit Account No. 06-1050, referencing Attorney Docket No. 14539-005002.

Respectfully submitted,

Date: December 5, 2003



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Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 14539-005002	Application No.
Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))		Applicant Katsunari Tezuka et al.	
		Filing Date Herewith	Group Art Unit

U.S. Patent Documents

Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
	AA	5,506,126	04/09/1996	Seed et al.			
	AB	5,521,288	05/28/1996	Linsley et al.			
	AC	5,770,197	06/23/1998	Linsley et al.			
	AD	6,075,181	06/13/2000	Kucherlapati			
	AE	2002/0164697	110/7/2000	Coyle et al.			
	AF	2002/0115831	08/22/2002	Tamatani et al.			
	AG	2002/0151685	10/17/2002	Tamatani et al.			
	AH	2002/0156242	10/24/2002	Tamatani et al.			
	AI	2003/0083472	05/01/2003	Tamatani et al.			

Foreign Patent Documents or Published Foreign Patent Applications

Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
	AJ	WO 98/11909	03/26/1998	PCT				
	AK	WO 98/38216	09/03/1998	PCT				
	AL	WO 99/15553	04/01/1999	PCT				
	AM	WO 00/19988	04/13/2000	PCT				
	AN	WO 00/46240	08/10/2000	PCT				
	AO	WO 00/67788	11/16/2000	PCT				
	AP	WO 01/08700	02/08/2001	PCT				
	AQ	WO 01/12658	02/22/2001	PCT				
	AR	WO 01/15732	03/08/2001	PCT				
	AS	WO 01/18022	03/15/2001	PCT				
	AT	WO 01/21796 A2	03/29/2001	PCT				
	AU	WO 01/32675	05/10/2001	PCT				
	AV	WO 01/64704	09/07/2001	PCT				
	AW	WO 01/87981	11/22/2001	PCT				
	AX	WO 02/44364	06/06/2002	PCT				

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							Yes	No
	AY	WO 02/70010	09/12/2002	PCT				
	AZ	WO 02/76504	10/03/2002	PCT				
	AAA	AU 13320/99	04/12/1999	Australia				
	ABB	DE 19821060	04/15/1999	Germany				
	ACC	EP 0 984 023 A1	03/08/2000	EPO				
	ADD	EP 1 125 585	08/22/2001	EPO				

Other Documents (include Author, Title, Date, and Place of Publication)		
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	AEE	Aicher et al., "Characterization of Human Inducible Costimulator Ligand Expression and Function," J. IMMUNOL., 164(9):4689-4696 (2000)
	AFF	Bajorath "A molecular model of inducible costimulator protein and three-dimensional analysis of its relation to the CD28 family of T cell-specific costimulatory receptors," J. MOL. MODEL. 5:169-176 (1999)
	AGG	Beier et al., "Induction, binding specificity and function of human ICOS," EUR. J. IMMUNOL., 30(12):3707-3717 (2000)
	AHH	Brodie et al., "LICOS, a primordial costimulatory ligand?," CURR. BIOL., 10(6):333-336 (2000)
	AII	Buonfiglio et al., "Characterization of a novel human surface molecule selectively expressed by mature thymocytes, activated T cells and subsets of T cell lymphomas," EUR. J. IMMUNOL., 29(9):2863-2874 (1999)
	AJJ	Buonfiglio et al., "The T cell activation molecule H4 and the CD28-like molecule ICOS are identical," EUR. J. IMMUNOL. 30(12):3463-3467 (2000)
	AKK	Cameron "Recent advances in transgenic technology" MOLECULAR BIOTECHNOLOGY 7:253-65 (1997)
	ALL	Chambers, "The expanding world of co-stimulation: the two-signal model revisited," TRENDS IN IMMUNOLOGY, 22(4):217-223 (2001)
	AMM	Cocks et al. "A novel receptor involved in T-cell activation," NATURE, 376:260-263 (July 20, 1995)
	ANN	Coyle et al., "The CD28-Related Molecule ICOS Is Required for Effective T Cell-Dependent Immune Responses," IMMUNITY 13(1):95-105 (2000)
	AOO	Dong et al., "Cutting Edge: Critical Role of Inducible Costimulator in Germinal Center Reactions," J. IMMUNOL., 166(6):3659-3662 (2001)
	APP	Dong, "ICOS co-stimulatory receptor is essential for T-cell activation and function," NATURE 409(6816):97-101 (2001)
	AQQ	Gonzalo et al., "The Related Molecules CD28 and Inducible Costimulator Deliver Both Unique and Complementary Signals Required for Optimal T Cell Activation," J. IMMUNOL., 166(1):1-5 (2001)

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Other Documents (include Author, Title, Date, and Place of Publication)		
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	ARR	Guo et al., "Stimulatory Effects of B7-Related Protein-1 on Cellular and Humoral Immune Responses in Mice," J. IMMUNOL., 166(9):5578-5584 (2001)
	ASS	Hanzawa et al., "Characteristics of a TTH1 antibody which blocks an unknown adhesion phenomenon," PROCEEDINGS OF THE JAPANESE SOCIETY FOR IMMUNOLOGY, Vol. 24, Abstract No. W17-13 (1994) [ORIGINAL JAPANESE AND ENGLISH LANGUAGE TRANSLATION]
	ATT	Heyeck et al. "Developmental regulation of a murine T-cell-specific tyrosine kinase gene, Tsk," PROC. NATL. ACAD. SCI. USA, Vol. 90, pp. 669-673 (1993)
	AUU	Houdebine "Production of pharmaceutical proteins from transgenic animals" J. BIOTECHNOL. 34:269-87 (1994)
	AVV	Hutloff et al., "ICOS is an inducible T-cell co-stimulator structurally and functionally related to CD28," NATURE, 397(6716):263-266 (1999)
	AWW	Ishikawa et al., "Prediction of the Coding Sequences of Unidentified Human Genes. X. The Complete Sequences of 100 New cDNA Clones from Brain Which Can Code for Large Proteins <i>in vitro</i> ," DNA RESEARCH, 5:169-176 (1998)
	AXX	Kappel et al. "Regulating gene expression in transgenic animals" CURRENT OPINION IN BIOTECHNOLOGY 3:548-53 (1992)
	AYY	Kopf et al., "Inducible Costimulator Protein (ICOS) Controls T Helper Cell Subset Polarization after Virus and Parasite Infection," J. EXP. MED., 192(1):53-61 (2000)
	AZZ	Kuchroo et al. "B7-1 and B7-2 costimulatory molecules activate differentially the Th1/Th2 developmental pathways: Application to autoimmune disease therapy," CELL, 80:707-718 (March 10, 1995)
	AAAA	Ling et al., "Cutting Edge: Identification of GL50, a Novel B7-Like Protein That Functionally Binds to ICOS Receptor," J. IMMUNOL., 164(4):1653-1657 (2000)
	ABBB	Mages et al., "Molecular cloning and characterization of murine ICOS and identification of B7h as ICOS ligand," EUR. J. IMMUNOL., 30(4):1040-1047 (2000)
	ACCC	Marguet et al. "cDNA Cloning for Mouse Thymocyte-activating Molecule," THE JOURNAL OF BIOLOGICAL CHEMISTRY, Vol. 267, No. 4, pp. 2200-2208 (1992)
	ADDD	McAdam et al., "Mouse inducible costimulatory (ICOS) molecule expression is increased by CD28 costimulation and regulates development of Th2 cells," FASEB JOURNAL, 14(6):A1169 (2000)
	AEEE	McAdam, "ICOS is critical for CD40-mediated antibody class switching," NATURE 409(6816):102-105 (2001)
	AFFF	McAdam, "Mouse Inducible Costimulatory Molecule (ICOS) Expression Is Enhanced by CD28 Costimulation and Regulates Differentiation of CD4 ⁺ T Cells," J. IMMUNOL., 165(9):5035-5040 (2000)
	AGGG	Mueller, "T cells: A proliferation of costimulatory molecules," CURR. BIOL. 10(6):R227-R230 (2000)
	AHHH	Mullins et al. "Expression of the DBA/2J Ren-2 gene in the adrenal gland of transgenic mice" EMBO J., 8:4065-72 (1989)
	AIII	Mullins et al. "Fulminant hypertension in transgenic rats harbouring the mouse Ren-2 gene" NATURE, 344:541-44 (1990)
	AJJJ	Mullins et al. "Transgenesis in nonmurine species" Hypertension 22:630-33 (1993)

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	AKKK	Niemann "Transgenic farm animals get off the ground" TRANSGENIC RESEARCH, 7:73-75 (1998)
	ALLL	Nojima et al. "The 4F9 antigen is a member of the tetra spans transmembrane protein family and functions as an accessory molecule in T cell activation and adhesion," CELLULAR IMMUNOLOGY, 152:249-260 (1993)
	AMMM	Overbeek "Factors affecting transgenic animal production," Transgenic Animal Technology, A Laboratory Handbook 96-98 (1994)
	ANNN	Özkaynak et al., "Importance of ICOS-B7RP-1 costimulation in acute and chronic allograft rejection," NATURE IMMUNOLOGY 2(7):591-596 (2001)
	AOOO	Poster, Kyoto International Conference Hall, Takaragaike Sakyo-ku, Kyoto, JAPAN (November 30, 1994) [ORIGINAL JAPANESE AND ENGLISH LANGUAGE TRANSLATION]
	APPP	Redoglia et al., "Characterization of H4: a mouse T lymphocyte activation molecule functionally associated with the CD3/T cell receptor," EUR. J. IMMUNOL., 26(11):2781-2789 (1996)
	AQQQ	Riley et al., "ICOS Costimulation Requires IL-2 and Can Be Presented by CTLA-4 Engagement," J. IMMUNOL., 166(8):4943-4948 (2001)
	ARRR	Robert et al. "Antibody Cross-Linking of the Thymocyte-Specific Cell Surface Molecule CTX Causes Abnormal Mitosis and Multinucleation of Tumor Cells," EXPERIMENTAL CELL RESEARCH, Vol. 235, pp. 227-237 (1997)
	ASSS	Sato et al. (2000) "Up-regulation of inducible co-stimulator (ICOS) expression and its regulation of cytokine production in inflammatory bowel disease," GASTROENTEROLOGY, 118(4):A662
	ATTT	Sharpe "Analysis of lymphocyte costimulation <i>in vivo</i> using transgenic and 'knockout' mice," CURRENT OPINION IN IMMUNOLOGY, 7:389-395 (1995)
	AUUU	Sigmund "Are studies in genetically altered mice out of control?" ARTERIOSCLER. THROMB. VASC. BIOL., 20:1425-29 (2000)
	AVVV	Swallow et al., "B7h, a Novel Costimulatory Homolog of B7.1 and B7.2, Is Induced by TNF α ," IMMUNITY, 11(4):423-432 (1999)
	AWWW	Tafari et al., "ICOS is essential for effective T-helper-cell responses," NATURE 409(6816):105-109 (2001)
	AXXX	Tai et al. "A role for CD9 molecules in T cell activation," J. EXP. MED., 184:753-758 (August 1996)
	AYYY	Tamatani et al., "AILIM/ICOS: a novel lymphocyte adhesion molecule," INTERNATIONAL IMMUNOLOGY, 12(1):51-55 (2000)
	AZZZ	Tamatani et al., "Characteristics of an antibody which induces an ICAM-1-LFA-1-independent adhesion pathway," PROCEEDINGS OF THE JAPANESE SOCIETY FOR IMMUNOLOGY, Vol. 23, Abstract No. H-160 (1993) [ORIGINAL JAPANESE AND ENGLISH LANGUAGE TRANSLATION]
	AAAAA	Tezuka et al. "Identification and characterization of rat AILIM/ICOS, a novel T-cell costimulatory molecule, related to the CD28/CTLA4 family," BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS, 276:335-345 (2000)
	ABBBB	Tezuka et al., "Genetic cloning of a lymphocyte surface signal transduction molecule which induces an unknown adhesion phenomenon," PROCEEDINGS OF THE JAPANESE SOCIETY FOR IMMUNOLOGY, Vol. 24, Abstract No. W17-14 (1994) [ORIGINAL JAPANESE AND ENGLISH LANGUAGE TRANSLATION]

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	ACCCC	Wall "Transgenic livestock: progress and prospects for the future" THERIOGENOLOGY 45:57-68 (1996)
	ADDDD	Wang et al., "Costimulation of T cells by B7-H2, a B7-like molecule that binds ICOS," BLOOD, 96(8):2808-2813 (2000)
	AEEEE	Yoshinaga et al., "Characterization of a new human B7-related protein: B7RP-1 is the ligand to the co-stimulatory protein ICOS," INTERNATIONAL IMMUNOLOGY, 12(10):1439-1441 (2000)
	AFFFF	Yoshinaga et al., "T-cell co-stimulation through B7RP-1 and ICOS," NATURE, 402(6763):827-832 (1999)

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